

## **Chukchi Sea Play 27: Early Sequence (Eocene)-Hope Basin**

*Correlative to Hope Basin Play 2*

### **Geological Assessment**

*GRASP UAI: AAAAA DBB*

*Play Area: 4,230 square miles*

*Play Water Depth Range: 30-180 feet*

*Play Depth Range: 2,000-11,500 feet*

*Play Exploration Chance: 0.05376*

| <b>Play 27, Early Sequence (Eocene)-Hope Basin,<br/>Chukchi Sea OCS Planning Area, 2006 Assessment,<br/>Undiscovered Technically-Recoverable Oil &amp; Gas</b>  |                    |             |            |
|---|--------------------|-------------|------------|
| Assessment Results as of November 2005  |                    |             |            |
| <b>Resource<br/>Commodity<br/>(Units)</b>   | <b>Resources *</b> |             |            |
|   | <b>F95</b>         | <b>Mean</b> | <b>F05</b> |
| BOE (Mmboe)   | 0                  | 127         | 557        |
| Total Gas (Tcfg)  | 0.000              | 0.593       | 2.555      |
| Total Liquids (Mmbo)  | 0                  | 22          | 102        |
| Free Gas** (Tcfg)   | 0.000              | 0.584       | 2.511      |
| Solution Gas (Tcfg)   | 0.000              | 0.009       | 0.044      |
| Oil (Mmbo)  | 0                  | 7           | 38         |
| Condensate (Mmbc)   | 0                  | 15          | 64         |
| <i>* Risked, Technically-Recoverable</i><br><i>** Free Gas Includes Gas Cap and Non-Associated Gas</i><br><i>F95 = 95% chance that resources will equal or exceed the given quantity</i><br><i>F05 = 5% chance that resources will equal or exceed the given quantity</i><br><i>BOE = total hydrocarbon energy, expressed in barrels-of-oil-equivalent, where 1 barrel of oil = 5,620 cubic feet of natural gas</i><br><i>Mmb = millions of barrels</i><br><i>Tcf = trillions of cubic feet</i> |                    |             |            |

**Table 1**

Play 27, the “Early Sequence (Eocene)-Hope Basin” play, is the 21<sup>st</sup>-ranking play (of 29 plays) in the Chukchi Sea OCS Planning Area, with 0.4% (127 Mmboe) of the Planning Area energy endowment (29,041 Mmboe). The overall assessment results for play 27 are shown in [table 1](#). Oil and gas-condensate liquids form 17% of the

hydrocarbon energy endowment of play 27.

[Table 5](#) reports the detailed assessment results by commodity for play 27.

[Table 3](#) summarizes the volumetric input data developed for the *GRASP* computer model of Chukchi Sea play 27. [Table 4](#) reports the risk model used for play 27. The location of play 27 is shown in [figure 1](#).

Play 27 consists mostly of Eocene(?) rocks. The Kotzebue basin wells penetrated rocks of Eocene age that are highly volcanoclastic and that have suffered extensive porosity destruction by diagenetic processes and compaction in reaction to deep burial. Therefore, the reservoir potential of the Early Sequence play is modeled as considerably lower than that of the Late Sequence play. We speculate that reservoirs consist primarily of fluvial-deltaic sands and conglomerates deposited along the edges of rift grabens formed during the early fault-driven phase of Hope basin subsidence in Eocene time. Organic matter in samples of the Early Sequence from the Kotzebue basin wells is cellulosic, with hydrogen indices generally below 200 mgHC/gTOC and total organic carbon values averaging <0.5%. The source potential of these rocks is therefore gas prone and very poor overall. The Early Sequence reaches thermal maturity in the central areas of both Hope and Kotzebue basins. Most of the Early Sequence sediments reached thermal maturity late in the deposition of the overlying Late Sequence (Pliocene and later), after most fault traps in both plays 26 and 27 had formed. Rocks correlative to play 27 were penetrated by the Cape Espenberg and Nimiuk Point wells in Kotzebue Sound.

| Play 27, Early Sequence (Hope Basin), Chukchi Sea<br>OCS Planning Area, 2006 Assessment, Conditional<br>BOE Sizes of Ten Largest Pools   |                 |      |     |
|--|-----------------|------|-----|
| Assessment Results as of November 2005   |                 |      |     |
| Pool Rank  | BOE Resources * |      |     |
|  | F95             | Mean | F05 |
| 1  | 33              | 144  | 339 |
| 2  | 16              | 74   | 168 |
| 3  | 10              | 48   | 107 |
| 4  | 7               | 35   | 79  |
| 5  | 5               | 27   | 61  |
| 6  | 4.1             | 22   | 50  |
| 7  | 3.6             | 18   | 42  |
| 8  | 3.2             | 16   | 36  |
| 9  | 2.9             | 14   | 32  |
| 10   | 2.7             | 13   | 29  |
| <p>* Conditional, Technically-Recoverable, Millions of Barrels Energy-Equivalent (Mmboe), from "PSRK.out" file</p> <p>F95 = 95% chance that resources will equal or exceed the given quantity</p> <p>F05 = 5% chance that resources will equal or exceed the given quantity</p> <p>BOE = total hydrocarbon energy, expressed in barrels-of-oil-equivalent, where 1 barrel of oil = 5,620 cubic feet of natural gas</p> |                 |      |     |

**Table 2**

A maximum of 21 hypothetical pools is forecast by the aggregation of the risk model and the prospect numbers model for play 27. These 21 pools range in mean conditional (un-risked) recoverable volumes from 5 Mmboe (pool rank 21) to 144 Mmboe (pool rank 1). Pool rank 1 ranges in possible conditional recoverable volumes from 33 Mmboe (F95) to 339 Mmboe (F05). [Table 2](#) shows the conditional sizes of the 10 largest pools in play 27.

In the computer simulation for play 27 a total of 21,465 "simulation pools" were sampled for size. These simulation pools can be grouped according to the USGS size class system in which sizes double with each successive class. Pool size class 11 contains the largest share (5,478, or 26%) of

simulation pools (conditional, technically recoverable BOE resources) for play 27. Pool size class 11 ranges from 32 to 64 Mmboe. The largest 2 simulation pools for play 27 fall within pool size class 16, which ranges in size from 1,024 to 2,048 Mmboe. [Table 6](#) reports statistics for the simulation pools developed in the *GRASP* model for play 27.

## GRASP Play Data Form (Minerals Management Service-Alaska Regional Office)

**Basin:** Chukchi Sea Planning Area  
**Play Number:** 27

**Assessor:** K.W. Sherwood  
**Play Name:** Early Sequence (Eocene) - Hope Basin

**Date:** January 2005

**Play UAI Number:** AAAAA DBB

**Play Area:** mi<sup>2</sup> ( million acres) 4,230 (2.707)  
**Reservoir Thermal Maturity:** % Ro 0.25 - 1.02

**Play Depth Range:** feet 2,000 - 11,500 (mean = 8,000)  
**Expected Oil Gravity:** ° API 40  
**Play Water Depth Range:** feet 30 - 180 (mean = 165)

### POOLS Module (Volumes of Pools, Acre-Feet)

| Fractile                                | F100 | F95  | F90  | F75  | F50   | Mean/Std. Dev. | F25   | F15   | F10   | F05   | F02  | F01  | F00   |
|---|------|------|------|------|-------|----------------|-------|-------|-------|-------|------|------|-------|
| Prospect Area (acres)-Model Input*      | 1620 |      | 3659 |      | 10530 | 14798/14610    |       |       | 30308 |       |      |      | 65960 |
| Prospect Area (acres)-Model Output**    | 1639 | 2931 | 3815 | 6228 | 10735 | 14045/11156    | 18124 | 24036 | 29083 | 38319 |      |      | 65904 |
| Fill Fraction (Fraction of Area Filled) | 0.04 | 0.09 | 0.10 | 0.12 | 0.15  | 0.16/0.05      | 0.18  | 0.21  | 0.23  | 0.25  |      |      | 0.50  |
| Productive Area of Pool (acres)***      | 100  | 392  | 524  | 883  | 1608  | 2211/1962      | 2845  | 3843  | 4687  | 6228  | 7300 | 8000 | 15832 |
| Pay Thickness (feet)                    | 30   | 66   | 73   | 89   | 110   | 116/37         | 136   | 152   | 165   | 185   | 210  | 229  | 360   |

\* model fit to prospect area data in *BESTFIT*

\*\* output from @RISK after aggregation with fill fraction

\*\*\* from @RISK aggregation of probability distributions for prospect area and fill fraction

### MPRO Module (Numbers of Pools)

|                           |        |
|---------------------------|--------|
| Input Play Level Chance   | 0.4    |
| Output Play Level Chance* | 0.3978 |

|                       |        |
|-----------------------|--------|
| Prospect Level Chance | 0.1344 |
|-----------------------|--------|

|                    |         |
|--------------------|---------|
| Exploration Chance | 0.05376 |
|--------------------|---------|

\* First Occurrence of Non Zero Pools As Reported in PSUM Module

| Risk Model | Play Chance | Petroleum System Factors  | Prospect Chance |
|------------|-------------|---|-----------------|
|            |             | Trap Integrity (highly faulted)   | 0.7             |
|            |             | Reservoir Presence (unknown)  | 0.8             |
|            |             | Chance Porosity > 10%   | 0.6             |
| 0.5        |             | Source Presence   |                 |
|            |             | Migration (mostly vertical up faults; risk of diversion to surface and no access for much of basin away from generation area) | 0.4             |
|            |             |   |                 |

| Fractile                     | F99 | F95 | F90 | F75 | F50 | Mean/Std. Dev. | F25 | F15 | F10 | F05 | F02 | F01 | F00 |
|------------------------------|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|-----|-----|
| Numbers of Prospects in Play | 26  | 29  | 31  | 34  | 39  | 39.94/7.46     | 43  | 47  | 49  | 52  | 57  | 60  | 78  |
| Numbers of Pools in Play     |     |     |     |     |     | 2.15/3.03      | 4   | 6   | 7   | 8   | 10  | 11  | 21  |

Zero Pools at F39.80

|                         |         |                      |      |                         |    |
|-------------------------|---------|----------------------|------|-------------------------|----|
| Minimum Number of Pools | 3 (F35) | Mean Number of Pools | 2.15 | Maximum Number of Pools | 21 |
|-------------------------|---------|----------------------|------|-------------------------|----|

### POOLS/PSRK/PSUM Modules (Play Resources)

| Fractile                             | F100 | F95 | F90  | F75  | F50  | Mean/Std. Dev. | F25  | F15  | F10  | F05  | F02  | F01  | F00  |
|--------------------------------------|------|-----|------|------|------|----------------|------|------|------|------|------|------|------|
| Oil Recovery Factor (bbl/acre-foot)  | 34   | 85  | 106  | 152  | 223  | 244/122        | 312  | 366  | 406  | 472  | 530  | 600  | 1028 |
| Gas Recovery Factor (Mcfg/acre-foot) | 190  | 480 | 578  | 777  | 1056 | 1109/443       | 1376 | 1574 | 1711 | 1910 | 2100 | 2300 | 3369 |
| Gas Oil Ratio (Sol'n Gas)(cf/bbl)    | 650  | 965 | 1010 | 1090 | 1175 | 1173/147       | 1265 | 1315 | 1345 | 1400 | 1450 | 1480 | 1700 |
| Condensate Yield ((bbl/Mmcfg)        | 13   | 18  | 19   | 22   | 25   | 25/5           | 28   | 30   | 31   | 33   | 36   | 38   | 50   |

Pool Size Distribution Statistics from *POOLS* (1,000 BOE):  $\mu$  (mu)= 10.495  $\sigma^2$  (sigma squared)= 1.060 Random Number Generator Seed= 263367

|                                  |      |   |     |
|----------------------------------|------|---|-----|
| BOE Conversion Factor (cf/bbl)   | 5620 | Probability Any Pool Contains Both Oil and Free Gas (Gas Cap) | 0.1 |
| Probability Any Pool is 100% Oil | 0    | Fraction of Pool Volume Gas-Bearing in Oil Pools with Gas Cap | 0.5 |
| Probability Any Pool is 100% Gas | 0.9  |   |     |

Table 3. Input data for Chukchi Sea play 27, 2006 assessment.



# GRASP - Geologic and Economic Resource Assessment Model - PSUM Module Results

Minerals Management Service - Alaska OCS Region

GRASP Model Version: 8.29.2005)

Computes the Geologic Resource Potential of the Play

|                          |                 |                    |            |  |         |
|--------------------------|-----------------|--------------------|------------|--|---------|
| <b>Play UAI: AAAAADB</b> |                 | <b>Play No. 27</b> |            |  |         |
| World                    | Level -         | World              | Level      | Resources                                      |         |
| Country                  | Level -         | UNITED             | STATES     | OF   | AMERICA |
| Region                   | Level -         | MMS                | -          | ALASKA   | REGION  |
| Basin                    | Level -         | <b>CHUKCHI</b>     | <b>SEA</b> | <b>SHELF</b>                                   |         |
| <b>Play</b>              | <b>Level -</b>  | <b>Play</b>        |            | <b>27 Early Sequence (Eocene) - Hope Basin</b> |         |
| Geologist                | Kirk W.         | Sherwood           |            | (Correlative to Hope Basin Play 02)            |         |
| Remarks                  | 2005 Assessment |                    |            |  |         |
| Run Date & Time:         | Date            | 19-Sep-05          | Time       | 13:57:31                                       |         |

## Summary of Play Potential

| Product                                    | MEAN    | Standard Deviation |
|--|---------|--------------------|
| BOE (Mboe)                                 | 127,470 | 206,380            |
| Oil (Mbo)                                  | 7,332   | 27,181             |
| Condensate (Mbc)                           | 14,679  | 24,033             |
| Free (Gas Cap & Nonassociated) Gas (Mmcfg) | 584,070 | 950,070            |
| Solution Gas (Mmcfg)                       | 8,612   | 32,673             |

10000 (Number of Trials in Sample)  
0.3978 (MPhc [Probability] of First Occurrence of Non-Zero Resource)  
Windowing Feature: used

## Empirical Probability Distributions of the Products

| Greater Than Percentage | BOE (Mboe) | Oil (Mbo) | Condensate (Mbc) | Free (Gas Cap & Nonassociated) Gas (Mmcfg) | Solution Gas (Mmcfg) |
|-------------------------|------------|-----------|------------------|--|----------------------|
| 100                     | 0          | 0         | 0                | 0  | 0                    |
| 99.99                   | 0          | 0         | 0                | 0  | 0                    |
| 99                      | 0          | 0         | 0                | 0  | 0                    |
| 95                      | 0          | 0         | 0                | 0  | 0                    |
| 90                      | 0          | 0         | 0                | 0  | 0                    |
| 85                      | 0          | 0         | 0                | 0  | 0                    |
| 80                      | 0          | 0         | 0                | 0  | 0                    |
| 75                      | 0          | 0         | 0                | 0  | 0                    |
| 70                      | 0          | 0         | 0                | 0  | 0                    |
| 65                      | 0          | 0         | 0                | 0  | 0                    |
| 60                      | 0          | 0         | 0                | 0  | 0                    |
| 55                      | 0          | 0         | 0                | 0  | 0                    |
| 50                      | 0          | 0         | 0                | 0  | 0                    |
| 45                      | 0          | 0         | 0                | 0  | 0                    |
| 40                      | 3,639      | 0         | 424              | 18,063                                     | 0                    |
| 35                      | 102,650    | 5,957     | 11,933           | 469,550                                    | 6,789                |
| 30                      | 164,780    | 5,326     | 19,721           | 778,950                                    | 6,346                |
| 25                      | 220,870    | 8,641     | 26,454           | 1,034,100                                  | 10,022               |
| 20                      | 276,830    | 12,972    | 32,573           | 1,284,800                                  | 14,992               |
| 15                      | 341,240    | 17,321    | 39,632           | 1,577,400                                  | 20,272               |
| 10                      | 421,870    | 25,944    | 48,320           | 1,923,300                                  | 30,281               |
| 8                       | 468,950    | 35,918    | 52,440           | 2,098,000                                  | 40,910               |
| 6                       | 523,730    | 36,307    | 59,648           | 2,361,000                                  | 43,059               |
| 5                       | 557,020    | 38,295    | 64,108           | 2,510,900                                  | 44,078               |
| 4                       | 600,530    | 38,998    | 69,364           | 2,719,400                                  | 46,568               |
| 2                       | 727,430    | 49,495    | 81,709           | 3,290,600                                  | 60,185               |
| 1                       | 859,530    | 59,026    | 97,411           | 3,879,500                                  | 71,851               |
| 0.1                     | 1,301,900  | 64,624    | 158,390          | 5,983,200                                  | 79,999               |
| 0.01                    | 1,580,700  | 0         | 193,020          | 7,798,800                                  | 0                    |
| 0.001                   | 1,632,900  | 0         | 202,050          | 8,041,200                                  | 0                    |

**Table 5.** Assessment results by commodity for Chukchi Sea play 27, 2006 assessment.

| Basin: CHUKCHI SEA SHELF                    |             |             |            |                       |               |                   | Model Simulation "Pools" Reported by "Fieldsize.out" GRASP Module  |            |          |                  |     |                  |     |                |     |                |     |                  |     |                                  |                |                  |          |   |          |          |  |
|---|-------------|-------------|------------|-----------------------|---------------|-------------------|--|------------|----------|------------------|-----|------------------|-----|----------------|-----|----------------|-----|------------------|-----|----------------------------------|----------------|------------------|----------|---|----------|----------|--|
| Play 27 - Hope - Early Sequence (HB Play 2) |             |             |            |                       |               |                   |  |            |          |                  |     |                  |     |                |     |                |     |                  |     |                                  |                |                  |          |   |          |          |  |
| UAI Key: AAAAADBB                           |             |             |            |                       |               |                   |  |            |          |                  |     |                  |     |                |     |                |     |                  |     |                                  |                |                  |          |   |          |          |  |
| Classification and Size                     |             |             |            | Pool Count Statistics |               |                   |  |            |          | Pool Types Count |     | Mixed Pool Range |     | Oil Pool Range |     | Gas Pool Range |     | Total Pool Range |     | Pool Resource Statistics (MMBOE) |                |                  |          |   |          |          |  |
| Class                                       | Min (MMBOE) | Max (MMBOE) | Pool Count | Percentage            | Trial Average | Trials w/Pool Avg |  | Mixed Pool | Oil Pool | Gas Pool         | Min | Max              | Min | Max            | Min | Max            | Min | Max              | Min | Max                              | Total Resource | Average Resource |          |   |          |          |  |
| 1   | 0.0312      | 0.0625      | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 2   | 0.0625      | 0.125       | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 3   | 0.125       | 0.25        | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 4   | 0.25        | 0.5         | 2          | 0.009317              | 0.0002        | 0.000503          |  | 0          | 0        | 2                | 0   | 0                | 0   | 0              | 0   | 1              | 1   | 1                | 1   | 1                                | 0.336888       | 0.414474         |          |   |          |          |  |
| 5   | 0.5         | 1           | 18         | 0.083857              | 0.0018        | 0.004524          |  | 0          | 0        | 18               | 0   | 0                | 0   | 0              | 0   | 1              | 1   | 1                | 1   | 1                                | 0.566116       | 0.994423         |          |   |          |          |  |
| 6   | 1           | 2           | 86         | 0.400652              | 0.0086        | 0.021613          |  | 6          | 0        | 80               | 1   | 1                | 0   | 0              | 0   | 1              | 2   | 1                | 1   | 2                                | 1.011499       | 1.990858         |          |   |          |          |  |
| 7   | 2           | 4           | 352        | 1.639879              | 0.0352        | 0.088464          |  | 19         | 0        | 333              | 1   | 1                | 0   | 0              | 0   | 1              | 2   | 1                | 2   | 1                                | 2.005231       | 3.998820         |          |   |          |          |  |
| 8   | 4           | 8           | 1133       | 5.27836               | 0.1133        | 0.284745          |  | 95         | 0        | 1038             | 1   | 1                | 0   | 0              | 0   | 1              | 3   | 1                | 3   | 1                                | 4.002466       | 7.996325         |          |   |          |          |  |
| 9   | 8           | 16          | 2985       | 13.906359             | 0.2985        | 0.750188          |  | 255        | 0        | 2730             | 1   | 2                | 0   | 0              | 0   | 1              | 6   | 1                | 6   | 1                                | 8.008182       | 15.992944        |          |   |          |          |  |
| 10  | 16          | 32          | 4901       | 22.832518             | 0.4901        | 1.231717          |  | 473        | 0        | 4428             | 1   | 2                | 0   | 0              | 0   | 1              | 7   | 1                | 7   | 1                                | 16.002118      | 31.994021        |          |   |          |          |  |
| 11  | 32          | 64          | 5478       | 25.520615             | 0.5478        | 1.376728          |  | 580        | 0        | 4898             | 1   | 3                | 0   | 0              | 0   | 1              | 8   | 1                | 9   | 1                                | 32.002160      | 63.975430        |          |   |          |          |  |
| 12  | 64          | 128         | 4217       | 19.645935             | 0.4217        | 1.059814          |  | 457        | 0        | 3760             | 1   | 3                | 0   | 0              | 0   | 1              | 6   | 1                | 7   | 1                                | 64.003720      | 127.997260       |          |   |          |          |  |
| 13  | 128         | 256         | 1835       | 8.5488                | 0.1835        | 0.461171          |  | 237        | 0        | 1598             | 1   | 2                | 0   | 0              | 0   | 1              | 4   | 1                | 4   | 1                                | 128.070962     | 255.879850       |          |   |          |          |  |
| 14  | 256         | 512         | 416        | 1.938039              | 0.0416        | 0.104549          |  | 71         | 0        | 345              | 1   | 1                | 0   | 0              | 0   | 1              | 2   | 1                | 2   | 1                                | 256.539407     | 509.886502       |          |   |          |          |  |
| 15  | 512         | 1024        | 40         | 0.18635               | 0.004         | 0.010053          |  | 10         | 0        | 30               | 1   | 1                | 0   | 0              | 0   | 1              | 1   | 1                | 1   | 1                                | 514.003277     | 935.319061       |          |   |          |          |  |
| 16  | 1024        | 2048        | 2          | 0.009317              | 0.0002        | 0.000503          |  | 0          | 0        | 2                | 0   | 0                | 0   | 0              | 0   | 1              | 1   | 1                | 1   | 1                                | 1032.534000    | 1477.601000      |          |   |          |          |  |
| 17  | 2048        | 4096        | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 18  | 4096        | 8192        | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 19  | 8192        | 16384       | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 20  | 16384       | 32768       | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 21  | 32768       | 65536       | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 22  | 65536       | 131072      | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 23  | 131072      | 262144      | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 24  | 262144      | 524288      | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| 25  | 524288      | 1048576     | 0          | 0                     | 0             | 0                 |  | 0          | 0        | 0                | 0   | 0                | 0   | 0              | 0   | 0              | 0   | 0                | 0   | 0                                | 0.000000       | 0.000000         |          |   |          |          |  |
| Not Classified                              |             |             | 0          | 0                     | 0             | 0                 | Below Class  | 0          | 0        | 0                |     |                  |     |                |     |                |     |                  |     |                                  |                | Below Class      | 0.000000 | 0.000000  | 0.000000 | 0.000000 |  |
| Totals                                      |             |             | 21465      | 99.999992             | 2.1465        | 5.394572          | Above Class  | 0          | 0        | 0                |     |                  |     |                |     |                |     |                  |     |                                  |                | Above Class      | 0.000000 | 0.000000  | 0.000000 | 0.000000 |  |
| Number of Pools not Classified: 0           |             |             |            |                       |               |                   | Min and Max refer to numbers of pools of the relevant size class that occur within any single trial in the simulation. |            |          |                  |     |                  |     |                |     |                |     |                  |     |                                  |                |                  |          | Min and Max refer to aggregate resources of the relevant size class that occur within any single trial in the simulation. |          |          |  |
| Number of Pools below Class 1: 0            |             |             |            |                       |               |                   |  |            |          |                  |     |                  |     |                |     |                |     |                  |     |                                  |                |                  |          |   |          |          |  |
| Number of Trials with Pools: 3979           |             |             |            |                       |               |                   |  |            |          |                  |     |                  |     |                |     |                |     |                  |     |                                  |                |                  |          |   |          |          |  |

**Table 6.** Statistics for simulation pools created in computer sampling run for Chukchi Sea play 27, 2006 assessment.

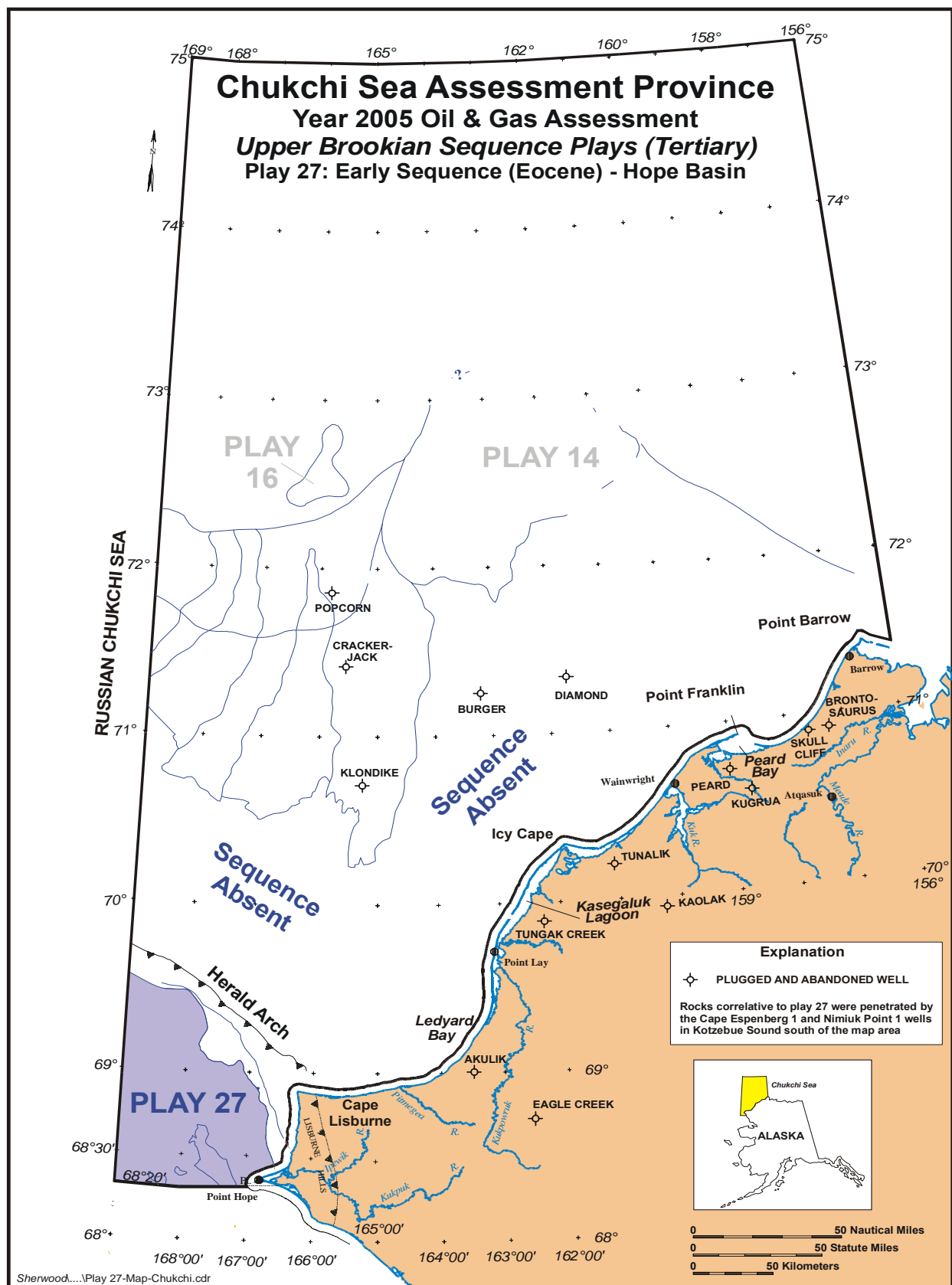


Figure 1. Map location of Chukchi Sea play 27, 2006 assessment.